

EUROPEAN PATENT APPLICATION

Application number: **88109953.5**

Int. Cl.4: **C07K 7/06 , A61K 37/02**

Date of filing: **22.06.88**

Priority: **22.06.87 US 65241**

Date of publication of application:
28.12.88 Bulletin 88/52

Designated Contracting States:
AT BE CH DE ES FR GB GR IT LI LU NL SE

Date of deferred publication of the search report:
27.09.89 Bulletin 89/39

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Cholecystokinin analogs for controlling appetite.

The invention relates to peptides of the general formula

$X-(R)_n-Tyr(SO_3H)-(R^1)_p-R^2-R^3-R^4-R^5-N-methyl-Phe-Y$

wherein

$X = -CO-R^6, -CO-OR^6, -CO-(CH_2)_m-CH_3, -CO-CO-OR^7,$ or $-CO-(CH_2)_q-CO-OR^8$

$Y = -OR^8$ or $-NR^9R^{10}$

$R = Asp, Aeg$

$R^1 = Met, Nle, Leu$ or Ile

$R^2 = Gly, Ala, D-Ala,$ or $\beta-Ala$

$R^3 = Trp$ or $Trp(For)$

$R^4 = Met, Nle$ or Nva

$R^5 = Thr(SO_3H), Ser(SO_3H),$ or $Hyp(SO_3H)$

$R^6 = H$ or C_{1-3} -alkyl,

$R^7 = H, C_{1-3}$ -alkyl, or halo- C_{1-3} -alkyl

$R^8 = H$ or C_{1-3} -alkyl

$R^9 = H$ or C_{1-3} -alkyl

$R^{10} = H$ or C_{1-3} -alkyl

$n = 0$ or 1

$p = 0$ or 1

$m = 3-14$

$q = 1-3$ or $4-14$

with the proviso that at least one of the variables X, R^4, p and q represent a residue which is emphasized

and pharmaceutically acceptable salts thereof with food intake suppressing or appetite regulating activity.

Such compounds can be prepared by treating the appropriate unsulfated peptides with a sulfating agent or treating the corresponding formylated peptides with a deformylating agent, and if desired, converting such a peptide obtained into pharmaceutically acceptable salts.

EP 0 296 574 A3



EP 88 10 9953

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
P,X Y	EP-A-0 248 440 (HOFFMANN) * Whole document * ---	1-7	C 07 K 7/06 A 61 K 37/02
A	EP-A-0 176 070 (V. BRANDTL) * Whole document * ---	1-4	
P,Y	EP-A-0 268 297 (PENNWALT) * Whole document * ---	1-4	
P,Y	EP-A-0 226 217 (PENNWALT) * Whole document * ---	1-4	
P,A	EP-A-0 248 231 (V. BRANTL) * Whole document * -----	1,4.	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			C 07 K 7/00 A 61 K 37/00
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30-06-1989	Examiner RAJIC M.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	